



## **MPE/RF EXPOSURE REPORT**

**FCC CFR 47 Part 1.1310**

**THNK16-U3 FCC Rev A**

**Company:** Thinkify LLC

**Model:** TR100

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**Model:** TR100

To: FCC CFR 47 Part 1.1310

Report Serial No.: THNK16-U3 FCC Rev A

This report supersedes: NONE

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## 1. MAXIMUM PERMISSABLE EXPOSURE

### Calculations for Maximum Permissible Exposure Levels

Power Density =  $P_d$  (mW/cm<sup>2</sup>) = EIRP/(4\*π\*d<sup>2</sup>)

EIRP = P \* G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = 10 ^ (G (dBi)/10)

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm<sup>2</sup>

These calculations represent worst case in terms of the exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm <sup>2</sup> ) @ 20cm	Power Density Limit (mW/cm <sup>2</sup> )	Min Calculated safe distance for Limit (cm)
902 – 928.0	6	3.98	29.70	933.25	0.739	1.00	17.19

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

### Specification

#### Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 1mW / cm<sup>2</sup> from 1.310 Table 1



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